

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-161470
(43)Date of publication of application : 11.07.1991

(51)Int.Cl.

C07D209/42
A61K 31/40
A61K 31/40
A61K 31/415
A61K 31/44
A61K 31/445
A61K 31/495
A61K 31/535
A61K 31/55
C07D401/12
C07D403/12

(21)Application number : 01-297498

(71)Applicant : NISSHIN FLOUR MILLING CO LTD

(22)Date of filing : 17.11.1989

(72)Inventor : YANAI MAKOTO
SATO HIROAKI
KIKUCHI HARUHIKO
HAGIWARA KOICHIRO

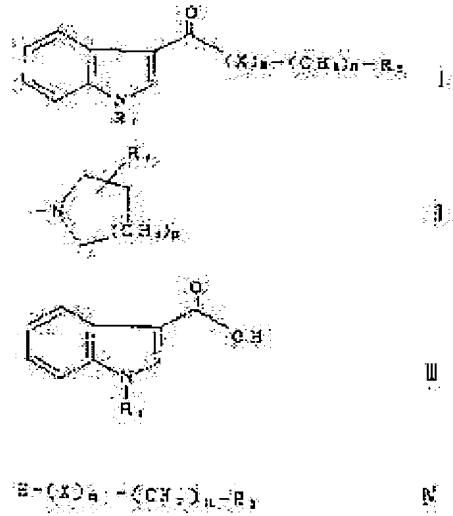
(54) INDOLE DERIVATIVE

(57)Abstract:

NEW MATERIAL:Indole derivative expressed by formula I, salt of said derivative, quaternary ammonium salt of said salt and N-oxide derivative [R1 is H or 1-6C alkyl; R2 is 4-morpholinyl, methyl piperazinyl, benzyl piperazinyl, unsaturated heterocyclic group (said heterocyclic group may be condensed with carbonic aromatic ring), saturated heterocyclic group having carbonyl group on a ring or saturated cyclic amine expressed by formula II (R4 is H, lower alkyl or benzyl; p is 1-3; R3 is 1-6C alkyl; m is 0 or 1; n is 0 or 1-5 and at least one H in $-(CH_2)_n-$ may be substituted with 1-6C alkyl].

USE: Useful for remedy of phrenopathy, etc., or remedy of neuropathy.

PREPARATION: A compound expressed by formula II is subjected to condensation reaction with a compound expressed by formula III to afford the compound expressed by formula I.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C) 1998,2003 Japan Patent Office